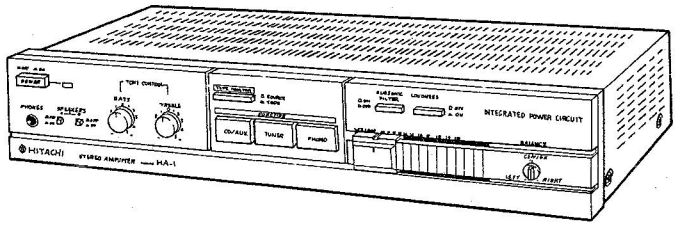
HITACHI
SERVICE MANUAL

TY | **No. 371 EGF**

HA-1



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SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with ⚠ in the circuit diagram and printed wiring board.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS

Power output (Both channels driven)	30 watts + 30 watts* min. RMS, at 8 ohms from 40 Hz to 20 kHz, with no more than 0.5 % total harmonic distortion.
	30 W + 30 W (8 ohms, 1 kHz, T.H.D. 0.1% SINUS)
	35 W/ch + 35 W/ch (8 ohms 40 – 20 kHz, T.H.D., 0.1 %)
Power bandwidth	10 Hz – 40 kHz (8 ohms, T.H.D. 0.1 % 1/2 Rated)
Frequency characteristics	
TUNER, AUX/TV, TAPE	20 Hz – 20 kHz (+1.0 – 3.0 dB)
PHONO	RIAA ±0.5 dB
Harmonic distortion	
(at rated output)	Less than 0.1 %
(at 1/2 rated output)	Less than 0.1 %
Intermodulation distortion	
(at 1/2 rated output)	Less than 0.5 %
Input sensitivity/ impedance	
PHONO	3.0 mV / 40 k-ohms
TUNER, AUX/TV	160 mV / 40 k-ohms
TAPE PLAY	160 mV / 40 k-ohms
Output level	
TAPE REC OUT	160 mV
Phono overload level (at 1 kHz)	100 mV
Signal-to-noise ratio (IHF, A network)	
PHONO	72 dB
TUNER, CD/AUX, TAPE	90 dB
Damping factor	20 (1 kHz)
Bass control	±8 dB (100 Hz)
Treble control	±8 dB (10 kHz)
Loudness control	+6 dB (100 Hz)
	+4 dB (10 kHz)
Subsonic filter	−6 dB/oct. (20 Hz)
Power supply	AC120 V 60 Hz, ~220 V 50/60 Hz, ~240 V 50/60 Hz or ~120 V/220 V/240 V 50/60 Hz
Power consumption	60 W (at 1/10 rated output)
	100 W (at 1/3 rated output)
	150 W (at rated output)
Dimensions	435 (W) × 83 (H) × 230 (D) mm
Weight	4.0 kg

*Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Output Claims for Amplifiers.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

STEREO AMPLIFIER

May 1983 **TOYOKAWA WORKS**

SICHERHEITSMASSNAHMEN

Bei Wartungsarbeiten sind die folgend Sicherheitsmaßnahmen zu beachten:

1. Da verschiedene Teile dieses Gerätes Sicherheitsfunktionen aufweisen, nur Original-Hitachi-Ersatzteile verwenden. Kritische Teile im Netzteil sollten nicht durch ähnliche Teile anderer Hersteller ersetzt werden. Alle kritischen Teile sind im Schaltplan und im Diagramm der Schaltplantinen mit dem Symbol ⚠ gekennzeichnet.
2. Vor der Auslieferung eines reparierten Gerätes an den Kunden muß der Wartungstechniker das Gerät einer gründlichen Prüfung unterziehen, um sicherzustellen, daß sicherer Betrieb ohne die Gefahr von elektrischen Schlägen gewährleistet ist.

TECHNISCHE DATEN

Ausgangsleistung	30 Watt/Kanal + 30 Watt/Kanal (beide Kanäle ausgesteuert an 8 Ohm, 40 Hz – 20 kHz, T.H.D. 0,1 %)
DIN 4/8 Ohm	30 Watt/Kanal + 30 Watt/Kanal (8 Ohm, 1 kHz, T.H.D. 0,5 % SINUS)
	35 Watt/Kanal + 35 Watt/Kanal (8 Ohm, 40 Hz–20 kHz, T.H.D., 0,1 %)
Leistungsbandbreite	10 Hz – 40 kHz (an 8 Ohm, Klirrgrad 0,1 %, halbe Nennleistung)
Frequenzcharakteristik	
TUNER, AUX/TV, TAPE	20 Hz – 20 kHz (+1,0 – 3,0 dB)
PHONO	RIAA-Kennlinie ±0,5 dB
Klirrfaktor	
(bei Nennleistung)	Kleiner als 0,1 %
(bei halber Nennleistung)	Kleiner als 0,1 %
Intermodulations-Verzerung	
(bei halber Nennleistung)	Kleiner als 0,5 %
Eingangsempfindlichkeit/ Impedanz	
PHONO	3,0 mV / 40 k-Ohm
TUNER, AUX/TV	160 mV / 40 k-Ohm
TAPE PLAY	160 mV / 40 k-Ohm
Ausgangspegel	
TAPE REC OUT	160 mV
Phonoüberlastungspegel (bei 1 kHz)	100 mV
Geräuschspannungsabstand (IHF, A-Nets)	
PHONO	72 dB
TUNER, AUX/TV, TAPE	90 dB
Dämpfungsfaktor	20 (1 kHz)
Tiefeneinstellung	±8 dB (100 Hz)
Höheneinstellung	±8 dB (10 kHz)
Gehörrichtige Lautstärkekorrektur	+6 dB (100 Hz)
	+4 dB (10 kHz)
Subsonicfilter-Schsiter	–6 dB/oct. (20 Hz)
Netzspannung	Wechselstrom 120 V 60 Hz, ~220 V 50/60 Hz, ~240 V 50/60 Hz oder ~120 V/220 V/240 V 50/60 Hz
Leistungsafnahme	60 W (bei 1/10 Nennleistung)
	100 W (bei 1/3 Nennleistung)
	150 W (bei Nennleistung)
Abmessungen	435 (B) × 83 (H) × 230 (T) mm
Gewicht	4,0 kg

Anderungen der Konstruktion und technischen Daten bleiben im Sinne der ständigen Verbesserung vorbehalten.

PRÉCAUTIONS DE SÉCURITÉ

Les précautions suivantes doivent être observées chaque fois qu'une réparation doit être faite.

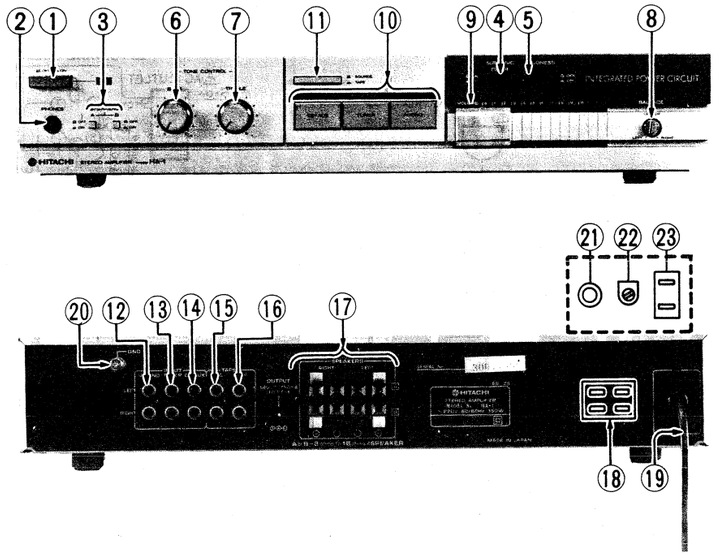
1. Etant donné que de nombreux composants de l'appareil possèdent des caractéristiques relatives à la sécurité, utiliser uniquement des pièces de rechange d'origine Hitachi pour effectuer un remplacement. Ceci se rapporte notamment aux piéces critiques du bloc d'alimentation qui ne doivent en aucun cas être remplacées par celles d'autres fabricants. Les piéces critiques sont accompagnés du symbole ⚠ dans le schéma de montage et sur le schéma de plaque de câblage.
2. Avant de retourner l'appareil réparé au client, le technicien doit procéder à un essai complet pour s'assurer qu'il ne présente aucun danger de chocs électriques.

CARACTERISTIQUES TECHNIQUES

Puissance de sortie	30 W/can. + 30 W/can. (deux canaux en fonction sous 8 ohms, 40 Hz – 20 kHz, D.H.T. 0,1 %)
	30 W/can. + 30 W/can. (8 ohms, 1 kHz, D.H.T. 0,5 % SINUS)
	35 W/can. + 35 W/can. (8 ohms, 40 Hz–20 kHz, D.H.T. 0,1 %)
Bande passante	10 Hz — 40 kHz (8 ohms, D.H.T. 0,1 % 1/2 de la puissance nominale)
Caractéristiques de fréquence	
TUNER, AUX/TV, TAPE	20 Hz – 20 kHz (+1,0 – 3,0 dB)
PHONO	RIAA ±0,5 dB
Distorsion harmonique (à la puissance nominale)	Inférieure à 0,1 %
(à la moitié de la puissance nominale)	Inférieure à 0,1 %
Distorsion d'intermodulation (à la moitié de la puissance nominale)	Inférieure à 0,5 %
Sensibilité d'entrée/ Impédance	
PHONO	3,0 mV / 40 k-ohms
TUNER, AUX/TV	160 mV / 40 k-ohms
TAPE PLAY	160 mV / 40 k-ohms
Niveau de sortie	
TAPE REC OUT	160 mV
Niveau de surcharge phono (à 1 kHz)	100 mV
Rapport signal/bruit (IHF, réseau A)	
PHONO	72 dB
TUNER, AUX/TV, TAPE	90 dB
Facteur d'amortissement	20 (1 kHz)
Réglage de graves	±8 dB (100 Hz)
Réglage des aiguës	±8 dB (10 kHz)
Correction physiologique	+6 dB (100 Hz)
	+4 dB (10 kHz)
Filtre subsonique	–6 dB/oct. (20 Hz)
Alimentation	CA 120 V 60 Hz, ~220 V 50/60 Hz, ~240 V 50/60 Hz ou ~120 V/220 V/240 V 50/60 Hz
Consommation	60 W (à 1/10 de la puissance nominale)
	100 W (à 1/3 de la puissance nominale)
	150 W (à la puissance nominale)
Dimensions	435 (L) × 83 (H) × 230 (P) mm
Poids	4.0 kg

Les caractéristiques techniques et la présentation peuvent être modifiées sans préavis pour des raisons d'amélioration.

FRONT AND REAR PANEL · VORDERE UND HINTERE BEDIENUNGSTAFEL · PANNEAUX AVANT ET ARRIERE

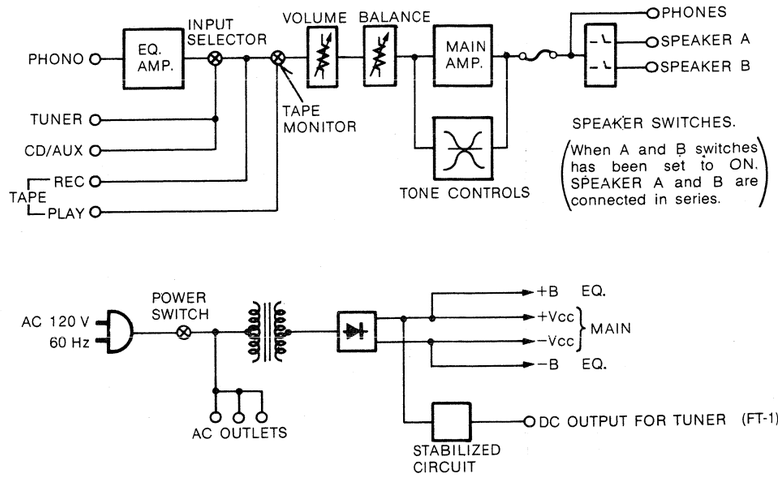


① POWER switch
② PHONES jack
③ SPEAKERS switches
④ SUBSONIC FILTER switch
⑤ LOUDNESS switch
⑥ BASS control
⑦ TREBLE control
⑧ BALANCE control
⑨ VOLUME control
⑩ FUNCTION switches
⑪ TAPE MONITOR switch
⑫ PHONO INPUT jacks
⑬ TUNER INPUT jacks
⑭ AUX/TV jacks
⑮ TAPE REC jacks
⑯ TAPE PLAY jacks
⑰ SPEAKERS terminals
⑱ AC outlet
(3 outlets for U.S.A. & Canada sets, 1 outlet for Asia & Latin American countries sets)
⑲ Power supply cord
⑳ Ground terminal (GND)
㉑ FUSE holder
(for Asia & Latin American countries)
㉒ VOLTAGE SELECTOR
(for Asia & Latin American countries)
㉓ AC outlets
(3 outlets for Canada, 1 outlet for Europe, Asia & Latin American countries)

① Netzschalter (POWER)
② Kopfhörer-Buches (PHONES)
③ Lautsprecherschalter bass (SPEKAERS)
④ SUBSONIC-FILTER-Schalter
⑤ Schalter für gehorrichtige Klangkorrektur (LOUDNESS)
⑥ BASS-Regler
⑦ Höhenregler (TREBLE)
⑧ BALANCE-Regler
⑨ Lautstärkeregler (VOLUME)
⑩ Funktionsschalter (FUNCTION)
⑪ Tonbandschalter (TAPE MONITOR)
⑫ PHONO-Eingangsbuchse (PHONO INPUT)
⑬ Tuner-Eingangsbuchse (TUNER INPUT)
⑭ AUX/TV-Eingangsbuchse (AUX/TV)
⑮ Bandaufnahmebuchsen (TAPE REC)
⑯ Bandwiedergabebuchsen (TAPE PLAY)
⑰ Lautsprecher-Klemmen (SPEAKERS)
⑱ Kaltgerate-Steckdose
(drei Steckdosen bei für USA und Kanada bestimmten Modellen; eine Steckdose bei für Asien und Lateinamerika bestimmten Módellen)
⑲ Netzkabel
⑳ Erdung (GND)
㉑ Sicherungshalterung (FUSE)
(für Asien und Lateinamerika)
㉒ Spannungswähler
(VOLTAGE SELECTOR)
(für Asien und Lateinamerika)
㉓ Netzausgänge (3 Ausgänge für Kanada, 1 Ausgang für Europa, Asien und Lateinamerika)

① Interrupteur d'alimentation (POWER)
② Prise de casque (PHONES)
③ Commutateur d'enceintes (SPEAKERS)
④ Commutateur de filtre subsonique (SUBSONIC FILTER)
⑤ Commutateur de correction physiologique (LOUDNESS)
⑥ Commande des graves (BASS)
⑦ Commande des aiqüs (TREBLE)
⑧ Commande d'équilibrage (BALANCE)
⑨ Commande de VOLUME
⑩ Commutateur de fonction (FUNCTION)
⑪ Commutateur du contrôleur de bande (TAPE MONITOR)
⑫ Prises d'entrée PHONE (PHONO INPUT)
⑬ Bornes d'entrée tuner (TUNER INPUT)
⑭ Bornes d'entrée AUX/TV (AUX/TV)
⑮ Prises d'enregistrement de magné_phono (TAPE REC)
⑯ Prises de reproduction du magnétphono (TAPE PLAY)
⑰ Bornes d'enceintes (SPEAKERS)
⑱ Prises C.A. (3 prises d'alimentation sur les modèles destinés aux Etats-Unis et au Canada, 1 prise d'alimentation pour les pays d'Asie et d'Amérique Latine)
⑲ Cordon d'alimentation C.A.
⑳ Borne de terre (GND)
㉑ Porte-fusible (FUSE)
(Pour l'Asie et l'Ameique Latine)
㉒ Sélecteur de tension (VOLTAGE SELECTOR)
(Pour l'Asie et l'Amérique Latine)
㉓ Sorties de courant secteur (3 sorties pour le Canada, 1 sortie pour l'Europe, l'Asie et l'Amérique Latine)

BLOCK DIAGRAM · BLOCK SCHEMA · SCHEMA

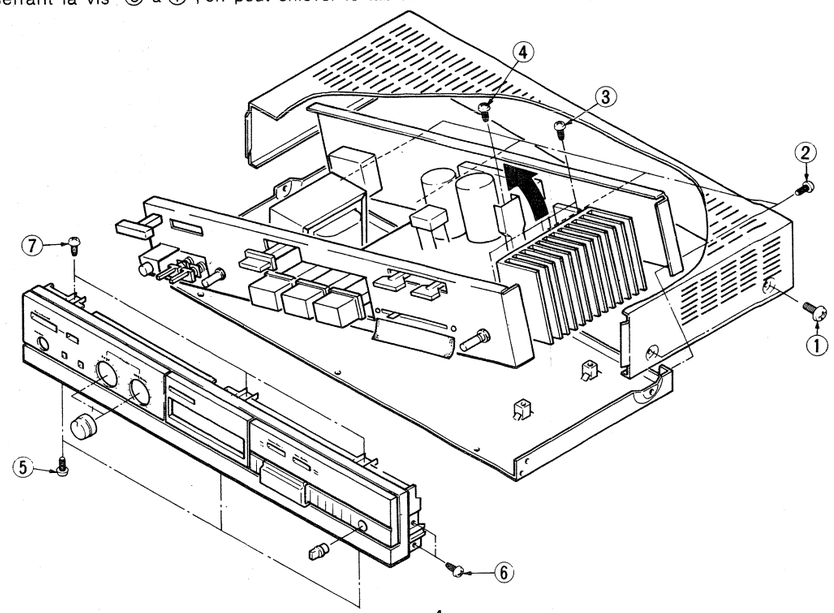


DISASSEMBLY AND REPLACEMENT · ZERLEGUNG UND AUSTAUSCH · DEMONTAGE ET REMONTAGE

1. By loosening the screw ① , the cover can be removed.
2. Loosen the screws ② through ⑥ , raise the rear plate slightly and slightly pull the front panel foreward.
3. The board can be set upright with the rear plate and front panel kept mounted.
4. By loosening the screw ⑤ through ⑦ , in the front panel can be removed.

1. Wenn die Schraube ① entfernt wird, kann die abdeckung entfernt werden.
2. Entfernen Sie die Schrauben ② bis ⑥ , heben Sie das hintere Blech etwas an, und ziehen Sie die Frontplatte etwas nach vorne heraus.
3. Die Grundplatte kann aufgestellt werden, während hinteres Blech und Frontplatte angebracht sind.
4. Wenn die Schraube ⑤ bis ⑦ , entfernt wird, kann die Frontplatte entfernt werden.

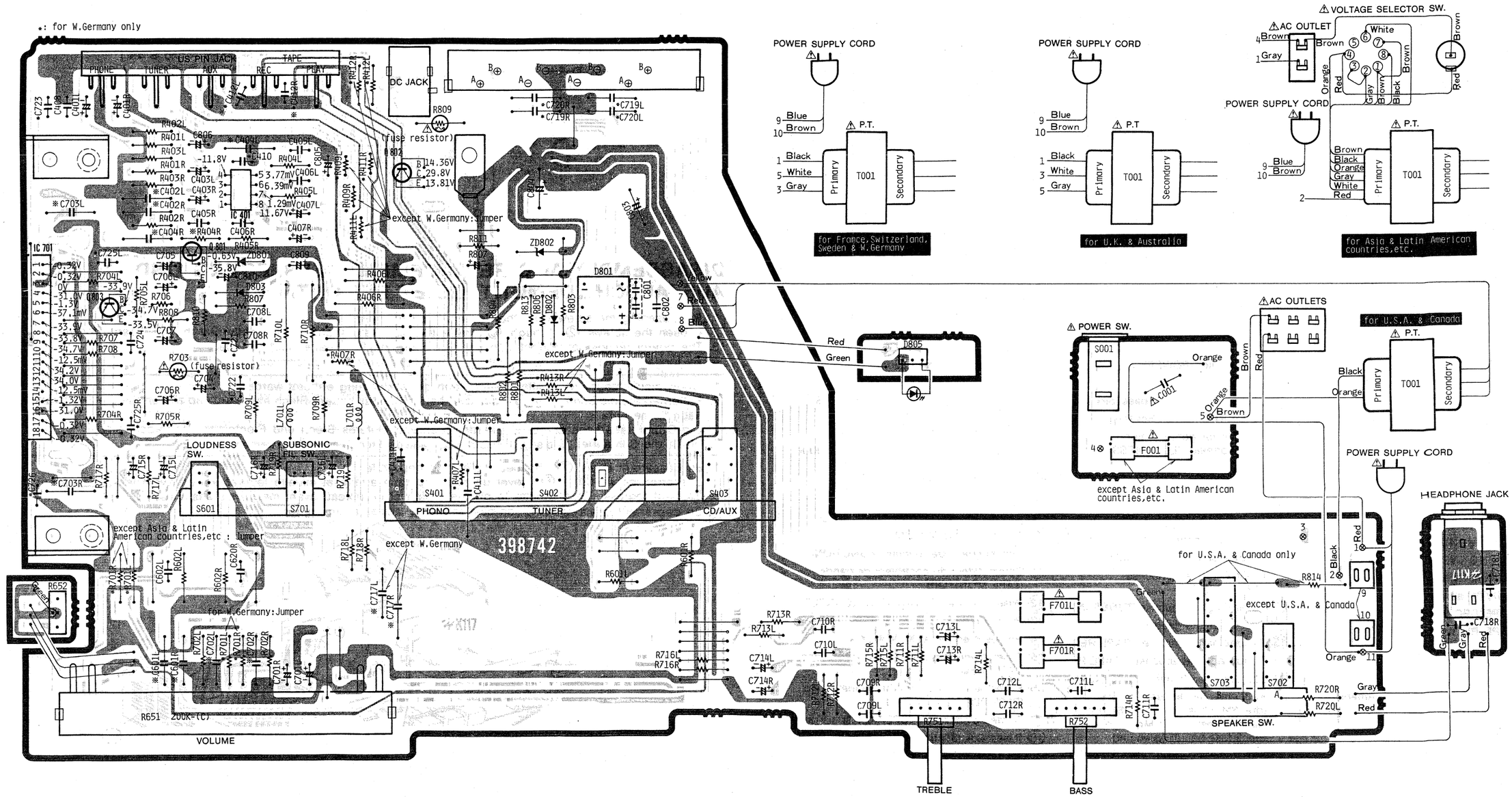
1. En desserrant la vis ① , on peur enlever le couvercle.
2. Desserrer les vis ② à ⑥ , lever un peu la plaque arrière et extraire légèrement en avant le tableau avant.
3. On peut redresser la plaquette la plaque arrière et le tableau avant maintenus assocéls.
4. En desserrant la vis ⑤ à ⑦ , on peut enlever le tableau avant.



PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE

[:Earth, :Other]

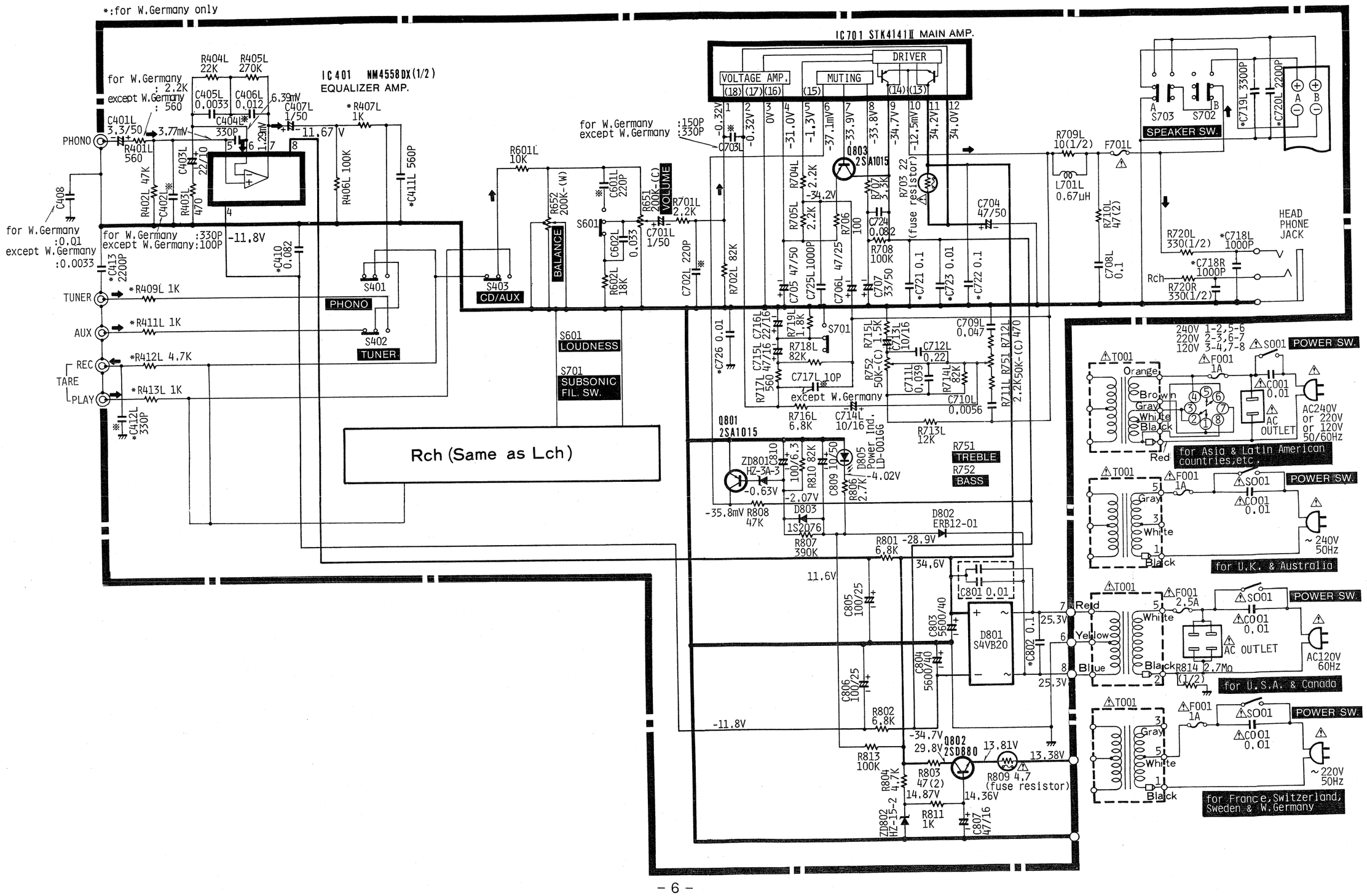
※ : Axial lead cylindrical ceramic capacitor
※ : Zylindrischer Keramikkondensator mit axialer Zuleitung
※ : Condensateur céramique cylindrique à conducteur axial



CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT

CAUTION
Use the electrorytic capacitors with explosion-proof valve when the diameter of them is more than 10mmø.

※ : Axial lead cylindrical ceramic capacitor
※ : Zylindrischer Keramikkondensator mit axialer Zuleitung
※ : Condensateur céramique cylindrique à conducteur axial



REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

SYMBOL No.	PART No.	DESCRIPTION			
CAPACITORS					
⚠C001	0243901	Ceramic, discal	0.01μF	+100 %	400V
C401LR	0252813	Electrolytic	3.3μF		50V
C402LR	0209004	Cylindrical ceramic (for W. Germany)	330pF	±10%	50V
C402LR	0230036	Cylindrical ceramic (except W. Germany)	100pF	±5%	50V
C403LR	0252322	Electrolytic	22μF		10V
C404LR	0209004	Cylindrical ceramic	330pF	±10%	50V
C405LR	0274014	Mylar, film	0.0033μF	±10%	50V
C406LR	1275231	Mylar, film	0.012μF	±10%	50V
C407LR	0252811	Electrolytic	1μF		50V
C408	0274014	Mylar, film (except W. Germany)	0.0033μF	±10%	50V
C408	0209737	Ceramic, discal (for W. Germany)	0.01μF	±10%	50V
C410	0275036	Mylar; film (for W. Germany)	0.082μF	±10%	50V
C411LR	0249724	Ceramic, discal (for W. Germany)	560pF	±10%	50V
C412L	0248736	Cylindrical ceramic (for W. Germany)	330pF	±10%	50V
C412R	0209721	Ceramic, discal (for W. Germany)	330pF	±10%	50V
C413	0274013	Mylar, film	0.0022μF	±10%	50V
C601LR	0240004	Cylindrical ceramic	220pF	±10%	50V
C602LR	0275014	Mylar, film (for W. Germany)	0.033μF	±10%	50V
C701LR	0252811	Electrolytic	1μF		50V
C702LR	0240004	Cylindrical ceramic	220pF	±10%	50V
C703LR	0209004	Ceramic, discal (except W. Germany)	330pF	±10%	50V
C703LR	0240002	Cylindrical ceramic (for W. Germany)	150pF	±10%	50V
C704	0252825	Electrolytic	47μF		50V
C705	0252825	Electrolytic	47μF		50V
C706LR	0252625	Electrolytic	47μF		25V
C707	0252823	Electrolytic	33μF		50V
C708LR	0276011	Mylar, film	0.1μF	±10%	50V
C709LR	0275015	Mylar, film	0.047μF	±10%	50V
C710LR	0274235	Mylar, film	5600pF	±10%	50V
C711LR	0275034	Mylar, film	0.039μF	±10%	50V
C712LR	0276013	Mylar, film	0.22μF	±10%	50V
C713LR	0252521	Electrolytic	10μF		16V
C714LR	0252521	Electrolytic	10μF		16V
C715LR	0252525	Electrolytic	47μF		16V
C716LR	0252522	Electrolytic	22μF		16V
C717LR	0230012	Cylindrical ceramic (except W. Germany)	10pF	±5%	50V
C718LR	0274011	Mylar, film (for W. Germany)	0.001μF	±10%	50V
C719LR	0274014	Mylar, film (for W. Germany)	0.0033μF	±10%	50V
C720LR	0274013	Mylar, film (for W. Germany)	0.0022μF	±10%	50V
C721	0276011	Mylar, film (for W. Germany)	0.1μF	±10%	50V
C722	0276011	Mylar, film (for W. Germany)	0.1μF	±10%	50V
C723	0209737	Ceramic, discal (for W. Germany)	0.01μF	±10%	50V
C724	0275036	Mylar, film	0.082μF	±10%	50V
C725LR	0274011	Mylar, film (for W. Germany)	0.001μF	±10%	50V
C726	0244141	Ceramic, discal (for W. Germany)	0.01μF	±10%	50V
C801	0241901	Ceramic, discal	0.01μF	+80 −20 %	250V
C802	0276011	Mylar, film (for W. Germany)	0.1μF	±10%	50V
C803	0259933	Electrolytic	5600μF		40V
C804	0259933	Electrolytic	5600μF		40V
C805	0252631	Electrolytic	100μF		25V
C806	0252631	Electrolytic	100μF		25V
C807	0252525	Electrolytic	47μF		16V
C809	0252821	Electrolytic	10μF		50V
C810	0252231	Electrolytic	100μF		6.3V
RESISTORS					
R401LR	0129601	Carbon film (for W. Germany)	2.2 kΩ	±5%	SRD1/4P
R401LR	0129579	Carbon film (except W.Germany)	560Ω	±5%	SRD1/4P
R402LR	0129647	Carbon film	47kΩ	±5%	SRD1/4P
R403LR	0129577	Carbon film	470Ω	±5%	SRD1/4P
R404LR	0129639	Carbon film	22kΩ	±5%	SRD1/4P
R405LR	0129671	Carbon film	270kΩ	±5%	SRD1/4P
R406LR	0129661	Carbon film	100kΩ	±5%	SRD1/4P
R407LR	0129870	Carbon film (for W. Germany)	1kΩ	±5%	SRD1/4P
R409LR	0129870	Carbon film (for W. Germany)	1kΩ	±5%	SRD1/4P
R411LR	0129870	Carbon film (for W. Germany)	1kΩ	±5%	SRD1/4P
R412LR	0129617	Carbon film (for W. Germany)	4.7kΩ	±5%	SRD1/4P
R413LR	0129601	Carbon film (for W. Germany)	1kΩ	±5%	SRD1/4P
R601LR	0129631	Carbon film	10kΩ	±5%	SRD1/4P
R602LR	0129637	Carbon film	18kΩ	±5%	SRD1/4P
R701LR	0129609	Carbon film	2.2kΩ	±5%	SRD1/4P
R702LR	0129653	Carbon film	82kΩ	±5%	SRD1/4P
⚠R703	0110605	Metal (fuse resistor)	22Ω	±5%	RN1/4B
R704LR	0129609	Carbon film	2.2kΩ	±5%	SRD1/4P
R705LR	0129609	Carbon film	2.2kΩ	±5%	SRD1/4P
R706	0129846	Carbon film	100Ω	±5%	SRD1/4P
R707	0129613	Carbon film	3.3kΩ	±5%	SRD1/4P
R708	0129661	Carbon film	100kΩ	±5%	SRD1/4P
R709LR	0134289	Composition	10Ω	±10%	RC1/2GF
R710LR	0119139	Metal	4.7Ω	±10%	RN2B
R711LR	0129609	Carbon film	2.2kΩ	±5%	SRD1/4P
R712LR	0129577	Carbon film	470Ω	±5%	SRD1/4P
R713LR	0129633	Carbon film	12kΩ	±5%	SRD1/4P
R714LR	0129653	Carbon film	82kΩ	±5%	SRD1/4P
R715LR	0129605	Carbon film	1.5kΩ	±5%	SRD1/4P
R716LR	0129621	Carbon film	6.8kΩ	±5%	SRD1/4P
R717LR	0129579	Carbon film	560Ω	±5%	SRD1/4P
R718LR	0129653	Carbon film	82kΩ	±5%	SRD1/4P
R719LR	0129607	Carbon film	1.8kΩ	±5%	SRD1/4P
R720LR	0134367	Composition	330Ω	±10%	RC1/2GF
R801	0129621	Carbon film	6.8kΩ	±5%	SRD1/4P
R802	0129621	Carbon film	6.8kΩ	±5%	SRD1/4P
R803	0119159	Metal oxide	47Ω	±10%	RS2B
R804	0129617	Carbon film	4.7kΩ	±5%	SRD1/4P
R806	0134378	Composition	2.7kΩ	±10%	RC1/2GF
R807	0129675	Carbon film	390Ω	±5%	SRD1/4P
R808	0129647	Carbon film	47kΩ	±5%	SRD1/4P
⚠R809	0118445	Metal (fuse resistor)	4.7Ω	±5%	RN1/4B
R810	0129653	Carbon film	82kΩ	±5%	SRD1/4P
R811	0129601	Carbon film	1kΩ	±5%	SRD1/4P
R813	0129661	Carbon film	100kΩ	±5%	SRD1/4P
R814	0139005	Composition (for U.S.A. & Canada)	2700kΩ	±10%	RC1/2GF
ICs & TRANSISTORS					
IC401	2368041	NJM4558 DX			
IC701	2387531	STK4141 II			
Q801	2329183	2SA1015 (GR)			
Q802	2317822	2SD880			
Q803	2329183	2SA1015 (GR)			
DIODES					
D801	2337461	S4VB20			
D802	2337762	ERB12 – 01R			
D803	2337011	1S2076			
D805	2339981	LD – 001GG			
ZD801	2337613	HZ3A – 3			
ZD802	2337532	HZ – 15 – 2			
VARIABLE RESISTOR					
R651	0166751	200kΩ – (C) (MAIN)			
R652	0151848	200kΩ – (W) (BALANCE)			
R751	0158733	50kΩ – (C) (TREBLE)			
R752	0158733	50kΩ – (C) (BASS)			
COIL					
L701LR	2227361	Audio trap coil – 0.67 μH			
MISCELLANEOUS					
S401-403	2639660	Push switch (FUNCTION)			
S601,607	2639503	Push switch (LOUDNESS, SUBSONIC FIL)			
S702,703	2639951	Push switch (SPEAKER)			
⚠S001	2639869	Power switch			
	2688281	8P Push terminal			
	2677753	Headphone jack			
	2678347	6P US pin jack			
	2678348	4P US pin jack			
	2678451	DC jack			
⚠F001	2727564	Fuse – 2.5A, ST6 (for U.S.A. & Canada)			
⚠F001	2727191	Fuse – T1A, 250V (except U.S.A., Canada, Asia & Ltain American countries)			
⚠F701LR	2727961	Fuse – 2A, (for U.S.A. & Canada)			
⚠F701LR	2727334	Fuse – 2A, (except U.S.A. & Canada)			
for FINAL ASSEMBLY					
	3959704	Front panel ass'y			
	3297101	Knob (20)			
	3296681	REC knob			
	3292555	Knob (10)			
	3297801	Push button (A1)			
	3297811	Push button (TA)			
	3297841	Push button (ACC)			
	3297851	SLIDE knob			
	3297821	F push button ass'y			
	3297822	F Push button ass'y			
	3297823	F Push button ass'y			
	3297791	Power button ass'y			
	3927411	Leg			
⚠ T001	2248251	Power transformer (U.C.) (for U.S.A. & Canada)			
⚠ T001	2248401	Power transformer (E) (except U.S.A., Canada, Asia & Latin American countries)			
⚠ T001	2248402	Power transformer (W) (for Asia & Latin American countries)			
	4567411	3φ × 6 DT bind screw (for MECHA PLATE, MIC P.W.B., SLIDE VOLUME)			
	4567432	3φ × 8 DT bind screw (for REAR PLATE, CHASSI)			
	4567413	3φ × 10 DT bind screw (for Leg)			
	4567454	3φ × 12 DT bind screw (for P. W. B., CHASSI)			
	4567422	4φ × 8 DT bind screw (for POWER TRANSFORMER)			
	4567463	4φ × 10 DT bind screw (for cover)			
	4784106	3φ × 10 bind tapping screw (for Rear plate)			
	4784106	3φ × 10 bind tapping screw (for LED P.W.B.)			
	4567412	3φ × 8 DT bind screw			
	4453241	Cover (for U.K.)			
	4453242	Cover (except U.K.)			
for REAR PLATE ASSEMBLY					
	4451078	Rear plate (U) (for U.S.A.)			
	4451073	Rear plate (C) (for Canada)			
	4451074	Rear plate (E) (for France, Switzerland, Sweden & W. Germany)			
	4451075	Rear plate (B) (for U.K. & Australis)			

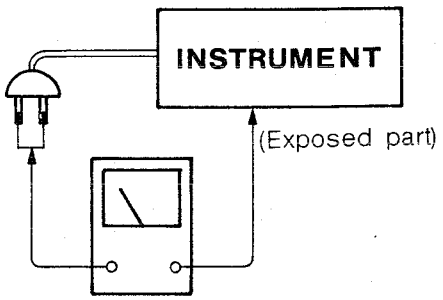
SYMBOL No.	PART No.	DESCRIPTION
	4451076	Rear plate (W) (for Asia & Latin American countries)
⚠	0043793	Bushing (for U.S.A. & Canada)
⚠	3913006	Bushing (except U.S.A. & Canada)
⚠	2700121	Power supply cord (for U.S.A. & Canada)
⚠	2748752	Power supply cord (except U.S.A., Canada, U.K. & Australia)
⚠	2749582	Power supply cord (for U.K.)
⚠	2749622	Power supply cord (for Australia)

SYMBOL No.	PART No.	DESCRIPTION
⚠	2658481	AC outlet (P) (for U.S.A. & Canada)
⚠	2658372	AC outlet (for Asia & Latin American countries)
⚠	2618051	AC selector switch (for Asia & Latin American countries)
⚠	2727191	Fuse T1A (for Asia & Latin American countries)
⚠	4567432	3ϕ × 8 DT bind screw (for Asia & Latin American countries)
		for ACCESSORIES
⚠	2658361	E socket adaptor (for Asia & Latin Aermican countries)
⚠	2727193	Fuse T2A 250V (for Asia & Latin Aermican countries)

Check that exposed parts are acceptably insulated from the supply circuit before returning the instrument repaired to the customer.

- **Checking method**

  Power switch is set to ON.
  Next, measure the resistance value between the both poles of attachment cup (Power supply plug) and the exposed parts (Parts such as Ground terminal, Knob, Cover, etc. where the customer is easy to touch.) and check that the resistance value is 500 kohms or more.



Insulation tester (DC500V)